

Title (en)  
EXHAUST GAS PURIFICATION DEVICE FOR ENGINE AND EXHAUST GAS PURIFICATION METHOD

Title (de)  
ABGASREINIGUNGSVORRICHTUNG FÜR EINEN MOTOR UND ABGASREINIGUNGSVERFAHREN

Title (fr)  
DISPOSITIF DE PURIFICATION DE GAZ D'ÉCHAPPEMENT POUR UN MOTEUR ET PROCÉDÉ DE PURIFICATION DE GAZ D'ÉCHAPPEMENT

Publication  
**EP 2873824 A1 20150520 (EN)**

Application  
**EP 13809655 A 20130426**

Priority  
• JP 2012142142 A 20120625  
• JP 2013062392 W 20130426

Abstract (en)  
The first target A/ F directing toward a richer side from the initial target A/F to the theoretical A/F is calculated; and the first estimated catalyst's oxygen amount is calculated based on the detected A/F and the theoretical A/F. Until the first estimated catalyst's oxygen amount reaches the first target catalyst's oxygen amount, calculations of the first target A/ F and of the first estimated catalyst's oxygen amount continue. After the first estimated catalyst's oxygen amount reaches the first target catalyst's oxygen amount, the second target A/F directing toward a richer side from the theoretical A/F to the final target A/F is calculated; and the second estimated catalyst's oxygen amount is calculated based on the detected A/F and the final target A/F. Until the second estimated catalyst's oxygen amount reaches the second target catalyst's oxygen amount, calculations of the second target A/F and of the second estimated catalyst's oxygen amount continue.

IPC 8 full level  
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CPC (source: EP US)  
**F01N 3/20** (2013.01 - US); **F02D 41/0295** (2013.01 - EP US); **F02D 41/1441** (2013.01 - EP US); **F02D 41/1445** (2013.01 - EP US); **F02D 41/1454** (2013.01 - EP US); **F02D 41/1456** (2013.01 - EP US); **F02D 41/1475** (2013.01 - EP); **B01D 53/944** (2013.01 - EP US); **B01D 2255/908** (2013.01 - EP US); **F01N 3/0864** (2013.01 - US); **F01N 3/101** (2013.01 - EP US); **F01N 13/0093** (2014.06 - EP US); **F01N 2430/06** (2013.01 - US); **F01N 2560/025** (2013.01 - US); **F01N 2560/14** (2013.01 - US); **F01N 2900/0408** (2013.01 - US); **F01N 2900/1402** (2013.01 - EP US); **F02D 35/0092** (2013.01 - US); **F02D 41/1408** (2013.01 - US); **F02D 41/1475** (2013.01 - US); **F02D 41/182** (2013.01 - EP US); **F02D 2041/1419** (2013.01 - EP); **F02D 2200/0814** (2013.01 - EP US); **F02D 2200/0816** (2013.01 - EP US); **F02D 2250/32** (2013.01 - US); **Y02T 10/12** (2013.01 - EP US); **Y02T 10/40** (2013.01 - US)

Cited by  
FR3101110A1; CN109386359A; WO2021052808A1

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Designated extension state (EPC)  
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DOCDB simple family (publication)  
**EP 2873824 A1 20150520**; **EP 2873824 A4 20150930**; **EP 2873824 B1 20160803**; CN 104302883 A 20150121; CN 104302883 B 20160203; JP 5930031 B2 20160608; JP WO2014002604 A1 20160530; US 2015204260 A1 20150723; US 9334822 B2 20160510; WO 2014002604 A1 20140103

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